

Loop Method:

```
Loop  
MRD [addr],[reg]  
DBcc Loop
```

*Fig. 1A*  
PRIOR ART

Unrolled Method:

```
MRD [addr],[reg]  
MRD [addr],[reg]  
MRD [addr],[reg]
```

*Fig. 1B*  
PRIOR ART

```
Load Count  
REPEAT  
MRD [addr],[reg]
```

*Fig. 2*

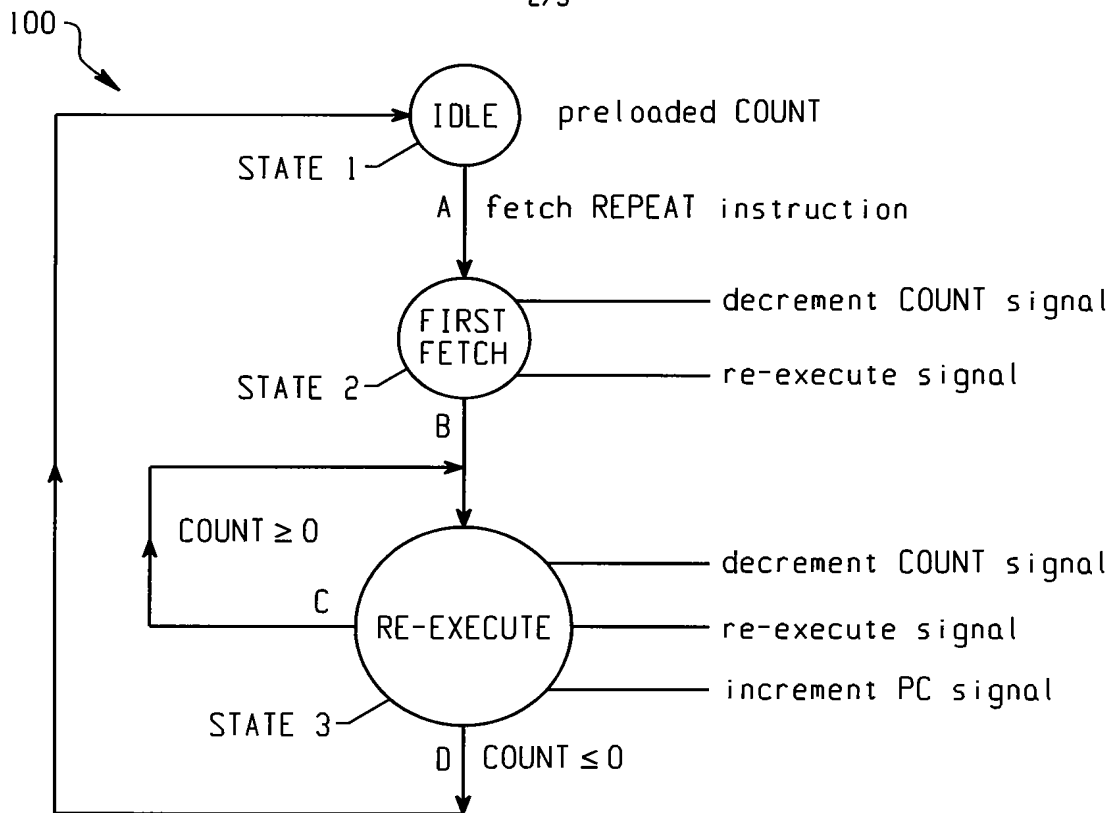


Fig. 3

<u>PROGRAM COUNTER (PC)</u>	<u>TRANSITION</u>	<u>OPERATION</u>
x10	A	fetch REPEAT instruction
x11	B	fetch instruction to be repeated (INST <sub>R</sub> )
x11	C	execute INST <sub>R</sub>
x11	C	execute INST <sub>R</sub>
x11	C	execute INST <sub>R</sub>
x11	C	execute INST <sub>R</sub>
x11	C	execute INST <sub>R</sub>
x12	D	fetch next instruction

Fig. 4

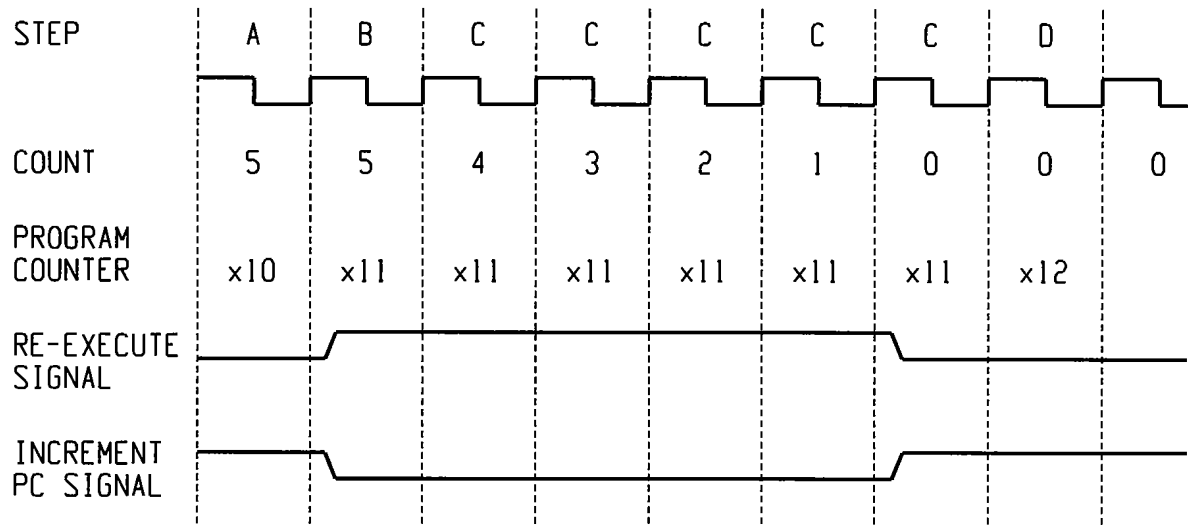


Fig. 5

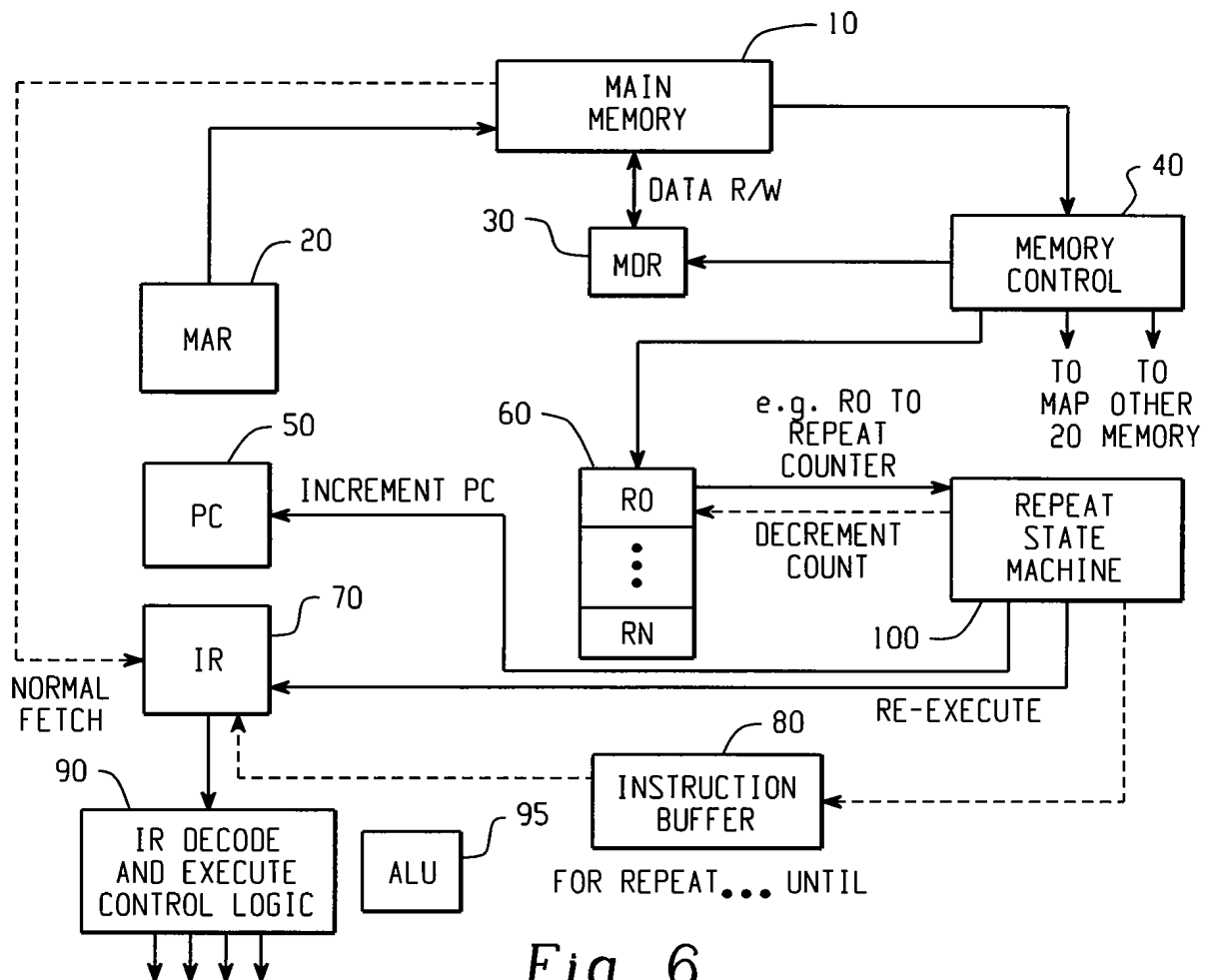


Fig. 6